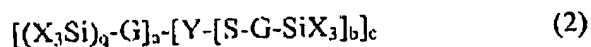
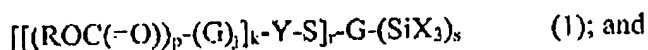


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IN THE CLAIMS

1. (Currently Amended) A blocked mercaptosilane selected from the group consisting of:



wherein

i) for structures (1) and (2), Y is a polyvalent species $(\text{Q})_x\text{A}(\text{=E})$ selected from the group consisting of -C(=NR)- ; -SC(=NR)- ; -SC(=O)- ; -S(=O)- ; $\text{-S(=O)}_2\text{-}$; $\text{-OS(=O)}_2\text{-}$; $\text{(-NR)S(=O)}_2\text{-}$; -SS(=O)- ; -OS(=O)- ; (-NR)S(=O)- ; $\text{-SS(=O)}_2\text{-}$; -S(=O)P(=O)- ; -P(=O)(-O)- ; -S(=O)P(=O)- ; -P(=S)(-O)- ; $\text{(-NR)}_2\text{P(=O)-}$; (-NR)(-S)P(=O)- ; (-O)(-NR)P(=O)- ; -P(=O)(-O)- ; -S(=O)P(=O)- ; -P(=S)(-O)- ; $\text{(-NR)}_2\text{P(=S)-}$; (-NR)(-S)P(=S)- ; (-O)(-NR)P(=S)- ; -P(=S)(-O)- ; -S(=O)P(=O)- ; -P(=S)(-O)- ; $\text{(-NR)}_2\text{P(=S)-}$; (-NR)(-S)P(=S)- ; (-O)(-NR)P(=S)- ; -P(=S)(-O)- ; and -P(=S)(-O)- ;

ii) for structure (1), Y is a polyvalent species $(\text{Q})_x\text{A}(\text{=E})$ selected from the group consisting of -S(=O)P(=O)- ; -P(=O)(-O)- ; -S(=O)P(=S)- ; -P(=S)(-O)- ; -P(=O)(-O)- ; and -P(=O)(-O)- ;

wherein the atom A, attached to unsaturated heteroatom E is attached to the sulfur which in turn is linked via a group G to the silicon atom;

each R is chosen independently from hydrogen, straight, cyclic, or branched alkyl that may or may not contain unsaturation, alkenyl groups, aryl groups, and aralkyl groups, with each R containing from 1 to 18 carbon atoms;

each G is independently a monovalent or polyvalent group derived by substitution of alkyl, alkenyl, aryl, or aralkyl wherein G can contain from 1 to 18 carbon atoms, and if G is univalent, G can be a hydrogen atom; X is independently selected from the group

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consisting of -Cl, -Br, RO-, RC(=O)O-, R₂C=NO-, R₂NO-, R₂N-, -R, and -
(OSiR₂)_i(OSiR₃)_j wherein each R is as above and at least one X is not -R;

p is 0 to 5; r is 1 to 3; z is 0 to 2; q is 0 to 6; a is 0 to 7; b is 1 to 3; j is 0 to 1, but it may be 0 only if p is 1; c is 1 to 6; t is 0 to 5; s is 1 to 3; k is 1 to 2; with the provisos that (I) if A is carbon, sulfur, or sulfonyl, then (i) a + b is 2 and (ii) k is 1; (II) if A is phosphorus, then a + b is 3 unless both (i) c is greater than 1 and (ii) b is 1, in which case a is c + 1; and (III) if A is phosphorus, then k is 2.

2. (Original) A blocked mercaptosilane according to claim 1 wherein R is selected from the group consisting of methyl, ethyl, propyl, isobutyl, phenyl, tolyl, phenethyl, norbornyl, norbornenyl, ethylnorbornyl, ethylnorbornenyl, ethylcyclohexyl, ethylcyclohexenyl, and cyclohexylcyclohexyl.

3. (Previously Presented) A blocked mercaptosilane according to claim 1 according to formula (1).

4. (Withdrawn) A blocked mercaptosilane according to claim 1 according to formula (2).

5. (Original) A blocked mercaptosilane according to claim 1 which has been partially hydrolyzed.

6. (Previously Presented) A blocked mercaptosilane according to claim 1 wherein Y is selected from the group consisting of: -SC(=O)-; -S(=O)-; -OS(=O)-; -(-S)P(=O)-; and -P(=O)(-)-.

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7. (Withdrawn) The blocked mercaptosilane of claim 1 wherein Y is selected from the group consisting of $-C(=NR)-$ and $-SC(=NR)-$.

8. (Withdrawn) The blocked mercaptosilane of claim 1 wherein Y is selected from the group consisting of $-S(=O)_2-$; $-OS(=O)_2-$; $(-NR)S(=O)_2-$; $-SS(=O)-$; $(-NR)S(=O)-$; $-SS(=O)_2-$.

9. (Withdrawn) The blocked mercaptosilane of claim 1 wherein Y is selected from the group consisting of $(-S)_2P(=O)-$; $(-S)P(=O)-$; $-P(=O)(-)_2$; $(-S)_2P(=S)-$; $(-S)P(=S)-$; $-P(=S)(-)_2$; $(-NR)_2P(=O)-$; $(-NR)(-S)P(=O)-$; $(-O)(-NR)P(=O)-$; $(-O)(-S)P(=O)-$; $(-O)_2P(=O)-$; $(-O)P(=O)-$; $(-NR)P(=O)-$; $(-NR)_2P(=S)-$; $(-NR)(-S)P(=S)-$; $(-O)(-NR)P(=S)-$; $(-O)(-S)P(=S)-$; $(-O)_2P(=S)-$; $(-O)P(=S)-$; and $(-NR)P(=S)-$.

10. (Original) A blocked mercaptosilane according to claim 1 wherein the sum of the carbon atoms within the G groups within the molecule is from 3 to 18.

11. (Original) A blocked mercaptosilane according to claim 1 wherein X is selected from the group consisting of methoxy, ethoxy, isobutoxy, propoxy, isopropoxy, acetoxy, and oximate.

12. (Original) A blocked mercaptosilane according to claim 1 wherein p is 0 to 2; X is $RO-$ or $RC(=O)O-$; R is selected from the group consisting of hydrogen, phenyl, isopropyl, cyclohexyl, isobutyl; and G is a substituted phenyl or substituted straight chain alkyl of C_2 to C_{12} .

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13. (Withdrawn) A blocked mercaptosilane of the formula
 $X_3SiGSC(=O)GC(=O)SGSiX_3$ wherein

each R is chosen independently from hydrogen, straight, cyclic, or branched alkyl that may or may not contain unsaturation, alkenyl groups, aryl groups, and aralkyl groups, with each R containing from 1 to 18 carbon atoms;

each G is independently a divalent group derived by substitution of alkyl, alkenyl, aryl, or aralkyl, wherein G can contain from 1 to 18 carbon atoms, with the proviso that G is not such that the blocked mercaptosilane would contain an α,β -unsaturated carbonyl including a carbon-carbon double bond next to the thiocarbonyl group;

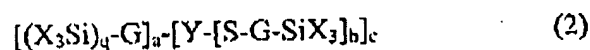
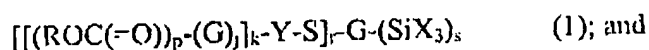
X is independently selected from the group consisting of -Cl, -Br, RO-, RC(=O)O-, $R_2C=NO$ -, R_2NO -, R_2N -, -R and $-(OSiR_2)_t(OSiR_3)$ wherein each R is as above and at least one X is not -R; and

t is 0 to 5.

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33. (Withdrawn) A blocked mercaptosilane selected from the group consisting of:



wherein

Y is $\text{-OC}(=\text{O})\text{-}$;

each R is chosen independently from hydrogen, straight, cyclic, or branched alkyl that may or may not contain unsaturation, alkenyl groups, aryl groups, and aralkyl groups, with each R containing from 1 to 18 carbon atoms;

each G is independently a monovalent or polyvalent group derived by substitution of alkyl, alkenyl, aryl, or aralkyl; wherein G can contain from 1 to 18 carbon atoms, and if G is univalent, G can be a hydrogen atom;

X is independently selected from the group consisting of -Cl , -Br , RO- , $\text{RC}(=\text{O})\text{O-}$, $\text{R}_2\text{C=NO-}$, $\text{R}_2\text{NO-}$, $\text{R}_2\text{N-}$ and -R wherein each R is as above and at least one X is not -R ;

p is 0 to 5; r is 1 to 3; z is 0 to 2; q is 0 to 6; a is 0 to 7; b is 1 to 3; j is 0 to 1, but it may be 0 only if p is 1; c is 1 to 6; t is 0 to 5; s is 1 to 3; k is 1 to 2; with the provisos that (I) if A is carbon, sulfur or sulfonyl, then (i) $a + b$ is 2 and (ii) k is 1; (II) if A is phosphorus, then $a + b$ is 3 unless both (i) c is greater than 1 and (ii) b is 1, in which case a is $c + 1$; and (III) if A is phosphorus, then k is 2.

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34. (Withdrawn) A blocked mercaptosilane according to claim 33 wherein R is selected from the group consisting of methyl, ethyl, propyl, isobutyl, phenyl, tolyl, phenethyl, norbornyl, norbornenyl, ethylnorbornyl, ethylnorbornenyl, ethylcyclohexyl, ethylcyclohexenyl, and cyclohexylcyclohexyl.

35. (Withdrawn) A blocked mercaptosilane according to claim 33 according to formula (1).

36. (Withdrawn) A blocked mercaptosilane according to claim 33 according to formula (2).

37. (Withdrawn) A blocked mercaptosilane according to claim 33 which has been partially hydrolyzed.

38. (Withdrawn) A blocked mercaptosilane according to claim 33 wherein the sum of the carbon atoms within the G groups within the molecule is from 3 to 18.

39. (Withdrawn) A blocked mercaptosilane according to claim 33 wherein X is selected from the group consisting of methoxy, ethoxy, isobutoxy, propoxy, isopropoxy, acetoxy, and oximato.

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40. (Withdrawn) A blocked mercaptosilane according to claim 33 wherein p is 0 to 2; X is RO- or RC(=O)O-; R is selected from the group consisting of hydrogen, phenyl, isopropyl, cyclohexyl, isobutyl; and G is a substituted phenyl or substituted straight chain alkyl of C₂ to C₁₂.